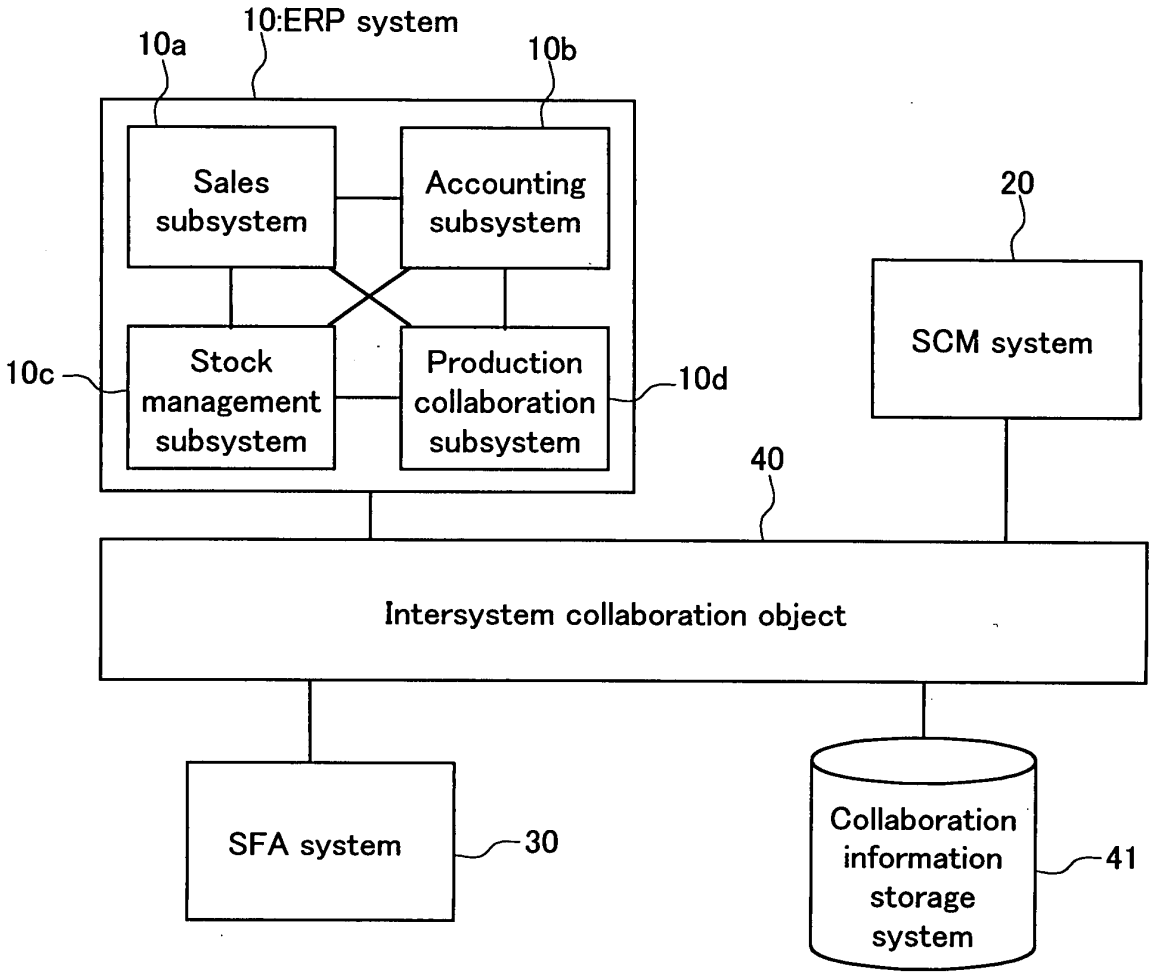
10:ERP system
10a
10b
Sales subsystem
Accounting subsystem
Stock management subsystem
Production collaboration subsystem
10c
10d
20
SCM system
40
Intersystem collaboration object
SFA system
30
Collaboration information storage system
41

FIG. 1

05694688-060605

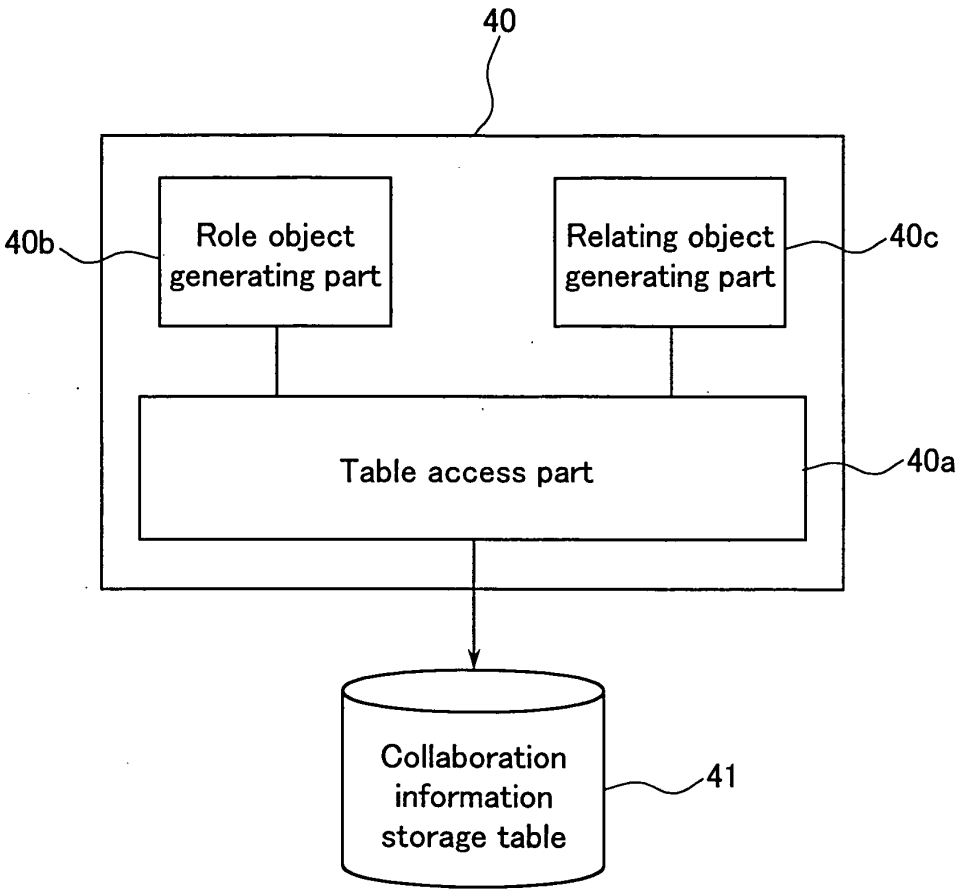

FIG. 2

Path	Communication method
SFA → ERP	Real
ERP → SCM	Delayed batch

FIG. 3

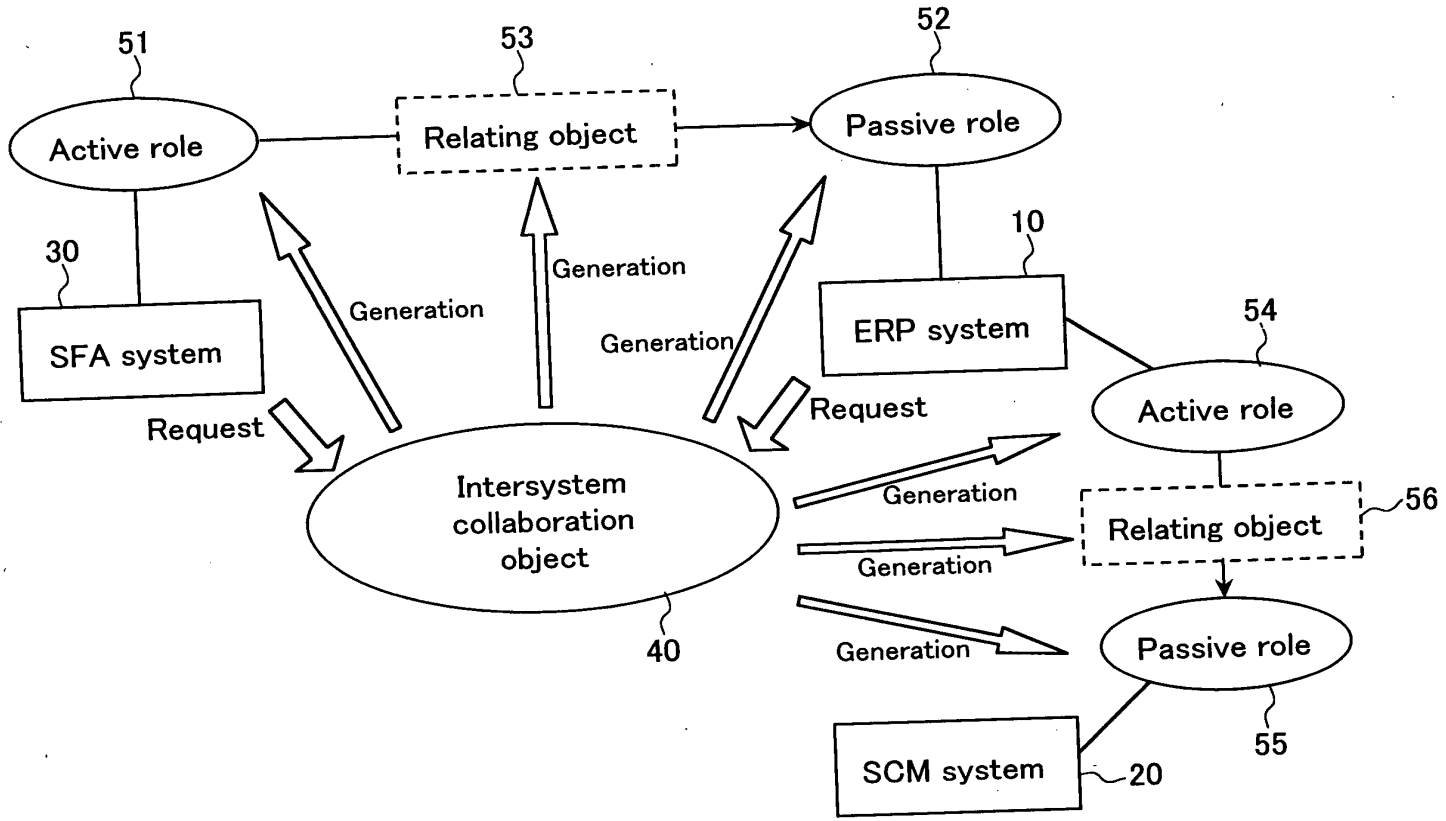
51
53
52
Active role
Relating object
Passive role
30
10
Generation
Generation
Generation
SFA system
ERP system
54
Request
Request
Active role
Intersystem collaboration object
Generation
Relating object
56
Generation
Generation
Passive role
40
55
SCM system
20

FIG. 4

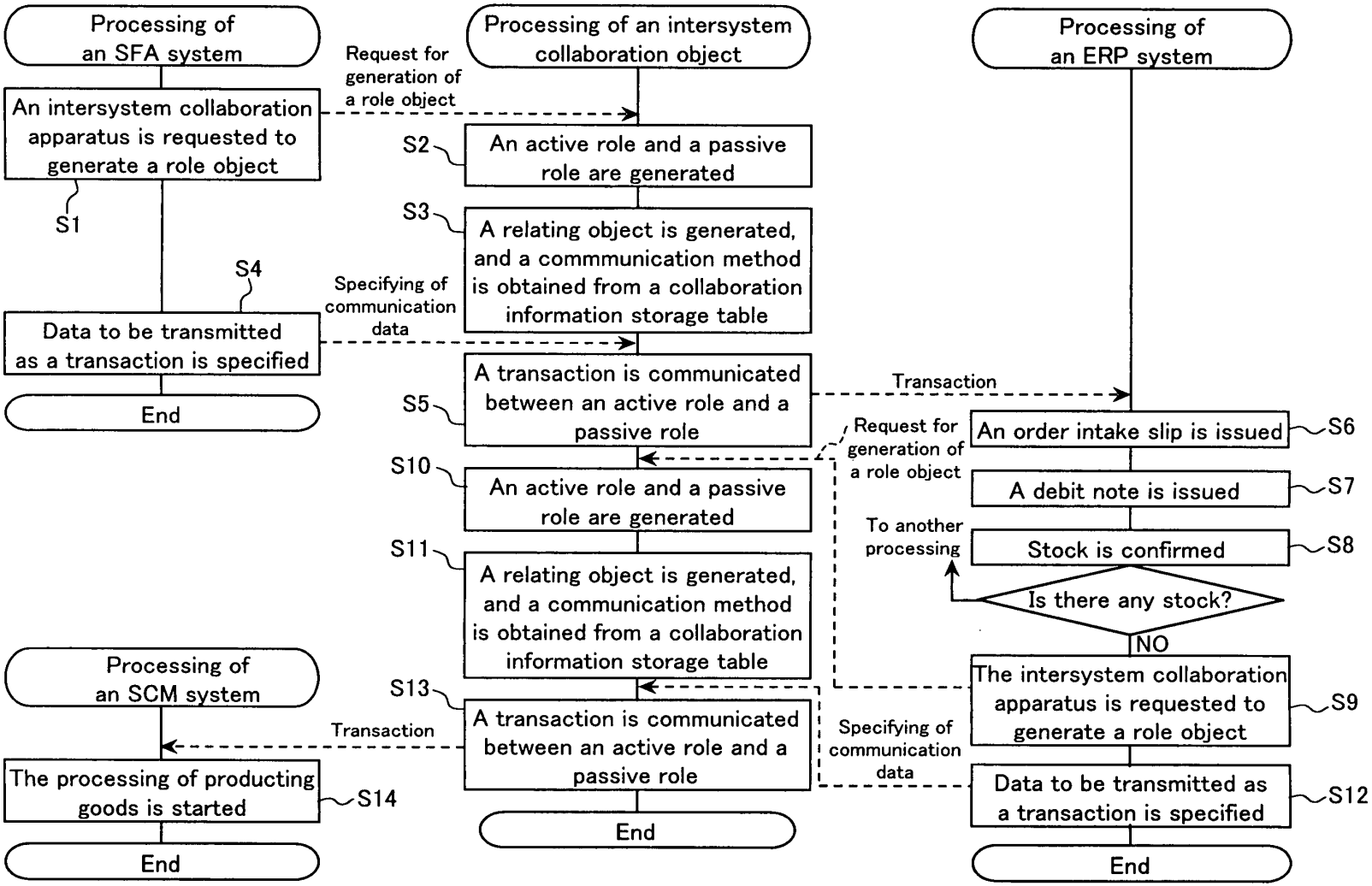
Processing of an SFA system
An intersystem collaboration apparatus is requested to generate a role object
S1
S4
Data to be transmitted as a transaction is specified
End
Request for generation of a role object
Specifying of communication data
Processing of an intersystem collaboration object
S2
An active role and a passive role are generated
S3
A relating object is generated, and a commmunication method is obtained from a collaboration information storage table
A transaction is communicated between an active role and a passive role
S5
S10
An active role and a passive role are generated
S11
A relating object is generated, and a communication method is obtained from a collaboration information storage table
S13
A transaction is communicated between an active role and a passive role
End
Transaction
Processing of an SCM system
The processing of producting goods is started
S14
End
Transaction
Processing of an ERP system
Request for generation of a role object
An order intake slip is issued
S6
A debit note is issued
S7
To another processing
Stock is confirmed
S8
Is there any stock?
NO
The intersystem collaboration apparatus is requested to generate a role object
S9
Specifying of communication data
Data to be transmitted as a transaction is specified
S12
End

FIG. 5

T09090"E82H2860

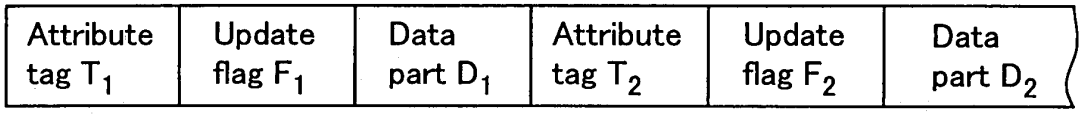

FIG. 6

Path	Communication method
SFA → ERP	Real
ERP → SCM	Delayed batch
Sales subsystem → Accounting subsystem	Real
Accounting subsystem → Stock management subsystem	Real
Stock management subsystem → Production collaboration subsystem	Batch

FIG. 7

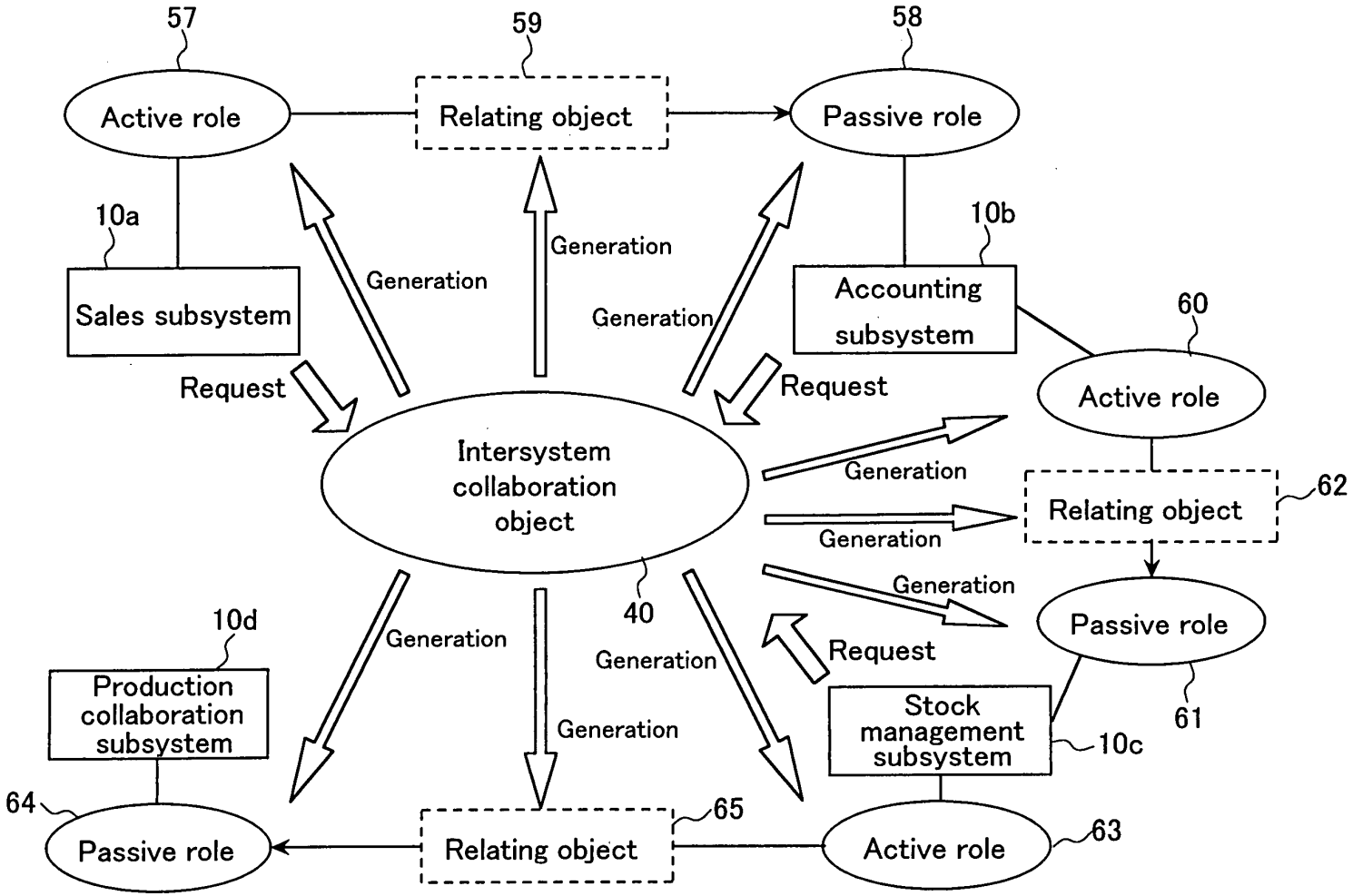
57
59
58
Active role
Relating object
Passive role
10a
10b
Generation
Generation
Generation
Sales subsystem
Accounting subsystem
60
Request
Request
Active role
Intersystem collaboration object
Generation
Relating object
62
Generation
Generation
40
Passive role
10d
Request
Production collaboration subsystem
Stock management subsystem
10c
61
64
65
63
Passive role
Relating object
Active role

FIG. 8

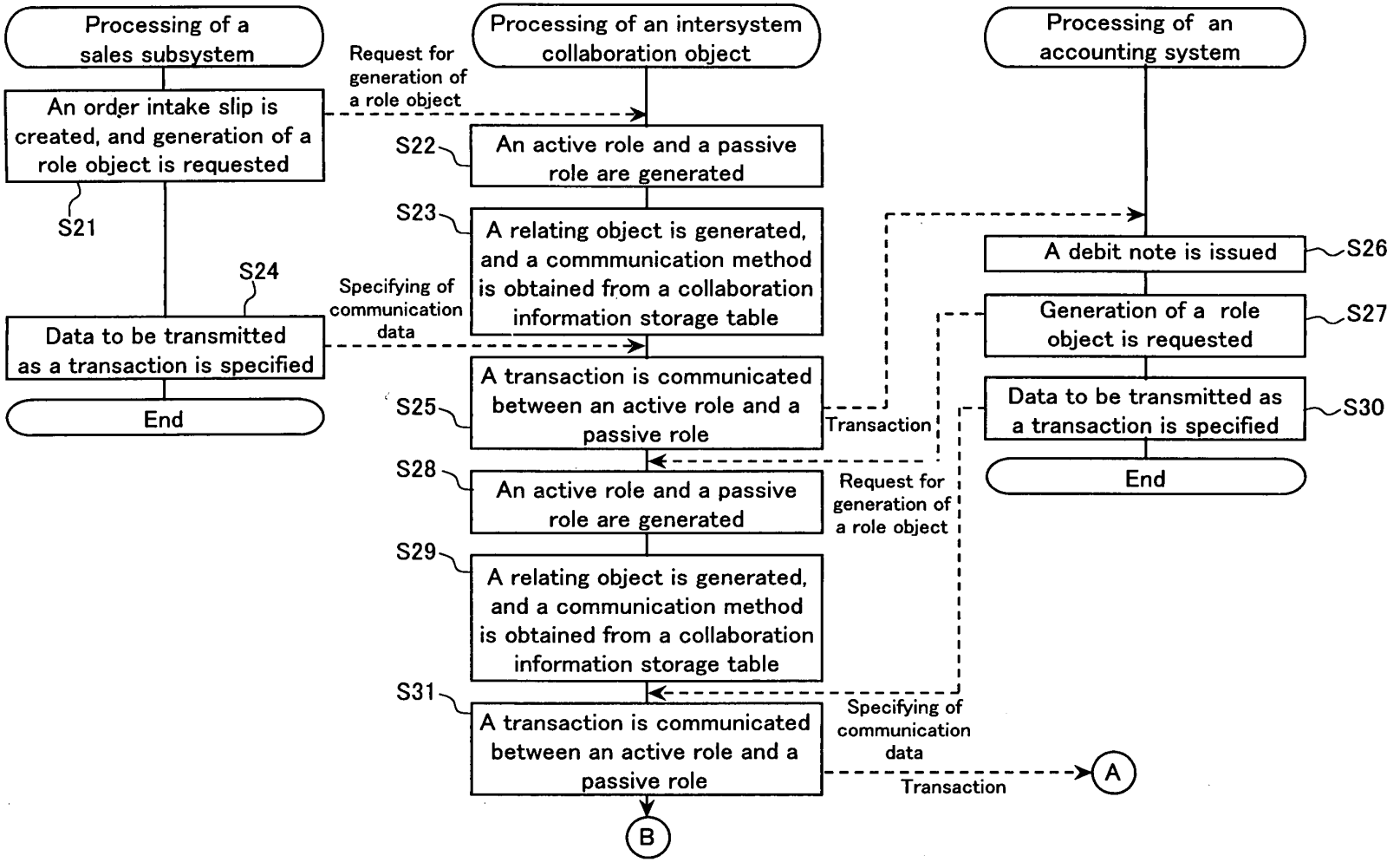
Processing of a sales subsystem
An order intake slip is created, and generation of a role object is requested
S21
Data to be transmitted as a transaction is specified
S24
End
Request for generation of a role object
Specifying of communication data
Processing of an intersystem collaboration object
S22
An active role and a passive role are generated
S23
A relating object is generated, and a commmunication method is obtained from a collaboration information storage table
A transaction is communicated between an active role and a passive role
S25
Transaction
S28
An active role and a passive role are generated
S29
A relating object is generated, and a communication method is obtained from a collaboration information storage table
S31
A transaction is communicated between an active role and a passive role
Specifying of communication data
Transaction
A
B
Processing of an accounting system
A debit note is issued
S26
Generation of a role object is requested
S27
Data to be transmitted as a transaction is specified
S30
End
Request for generation of a role object

FIG. 9

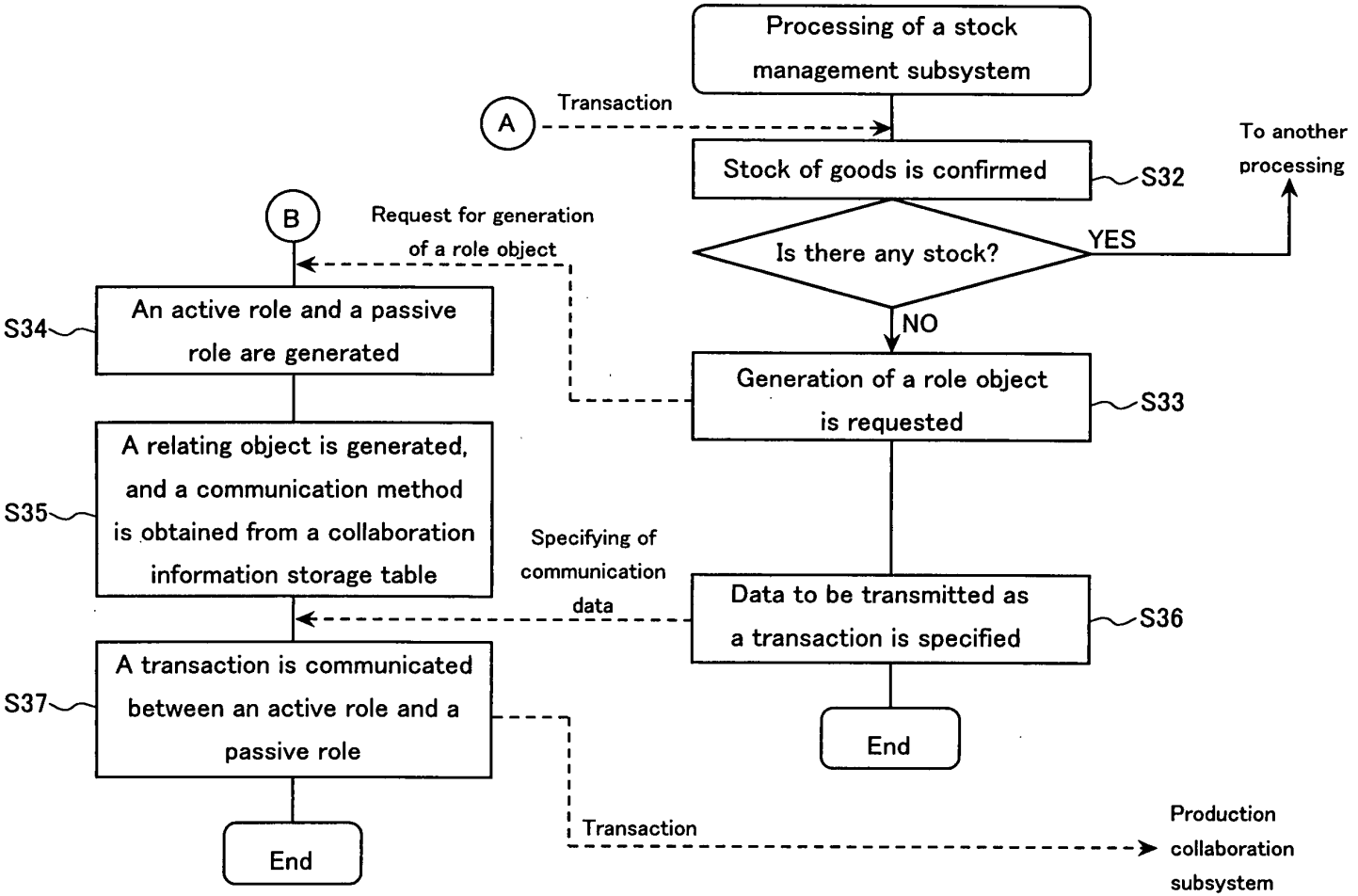
Processing of a stock management subsystem
A
Transaction
Stock of goods is confirmed
S32
To another processing
Is there any stock?
YES
NO
B
Request for generation of a role object
Generation of a role object is requested
S33
An active role and a passive role are generated
S34
A relating object is generated, and a communication method is obtained from a collaboration information storage table
S35
Specifying of communication data
Data to be transmitted as a transaction is specified
S36
A transaction is communicated between an active role and a passive role
S37
End
End
Transaction
Production collaboration subsystem

FIG. 10

0097-2338-0005-04

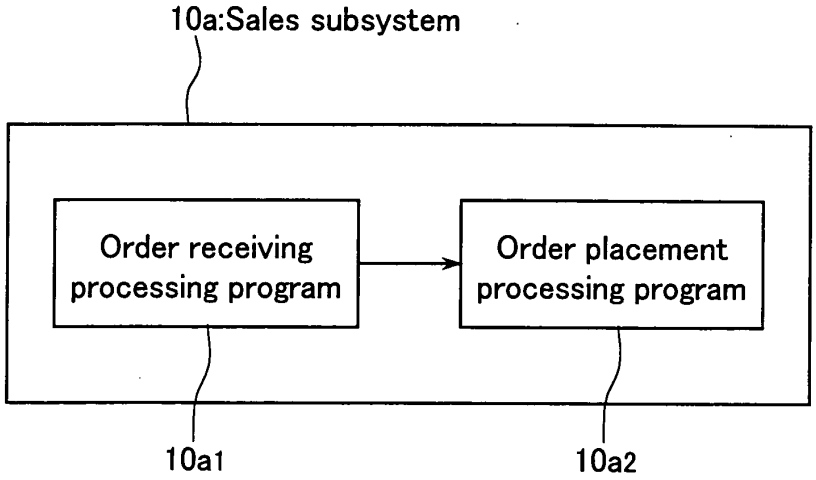

FIG. 11

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Path		Communication method
Order receiving processing program	→ Order placement processing program	Real

FIG. 12

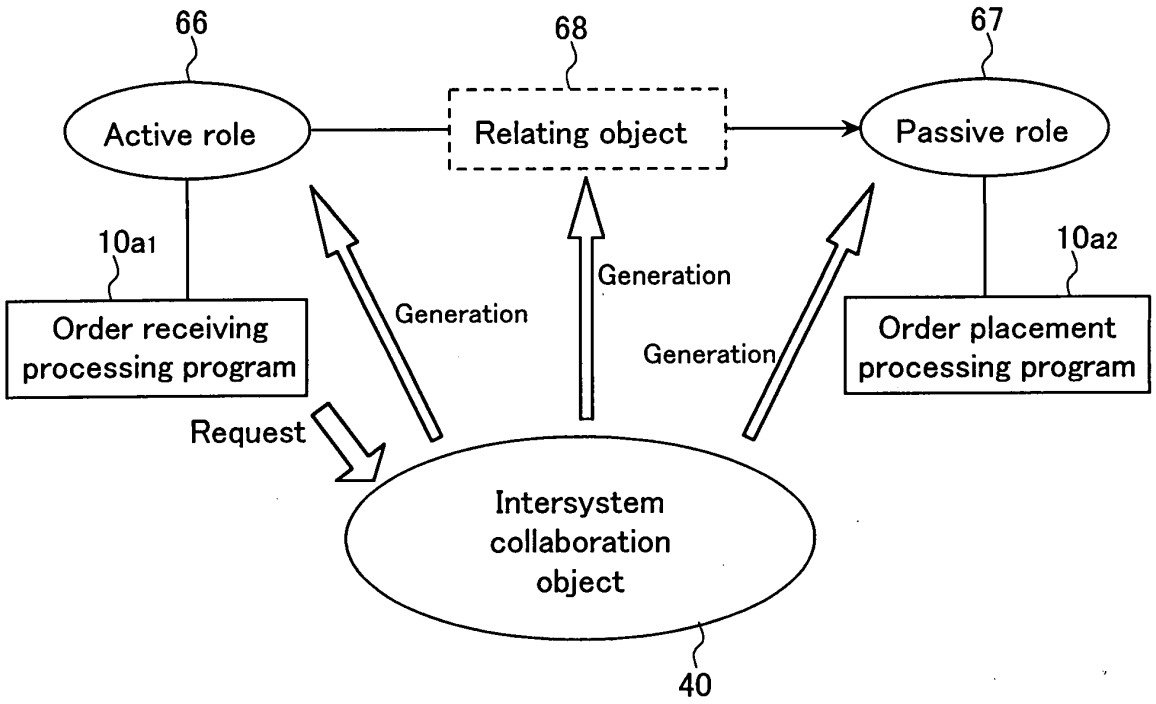
66
68
67
Active role
Relating object
Passive role
10a1
10a2
Generation
Generation
Generation
Order receiving processing program
Order placement processing program
Request
Intersystem collaboration object
40

FIG. 13

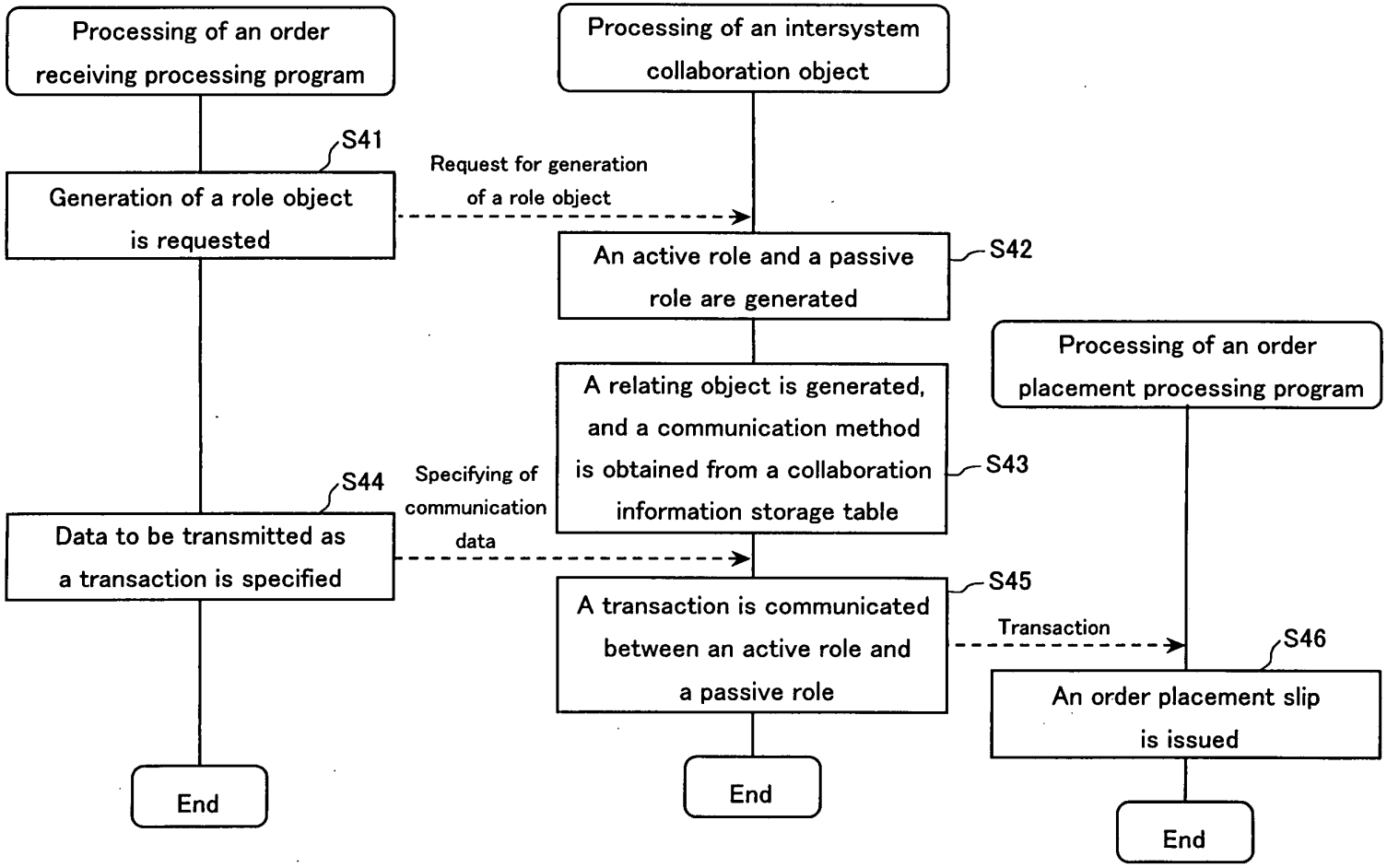
Processing of an order receiving processing program
Processing of an intersystem collaboration object
Processing of an order placement processing program
S41
Generation of a role object is requested
Request for generation of a role object
An active role and a passive role are generated
S42
A relating object is generated, and a communication method is obtained from a collaboration information storage table
S43
S44
Data to be transmitted as a transaction is specified
Specifying of communication data
S45
A transaction is communicated between an active role and a passive role
Transaction
S46
An order placement slip is issued
End
End
End

FIG. 14

T09090 "E82h/860

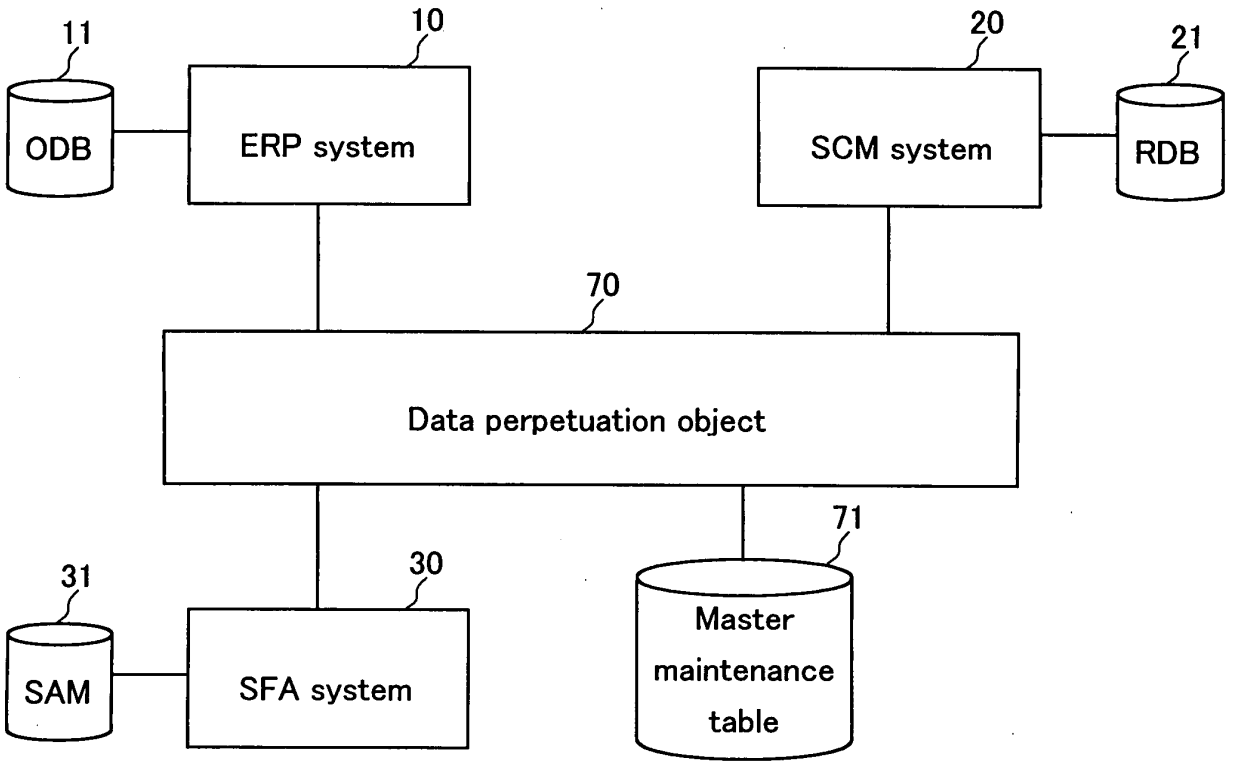

FIG. 15

Path	Communication method
ERP → SCM	Real
SCM → SFA	Delayed batch

FIG. 16

Docket No. 0508-1150

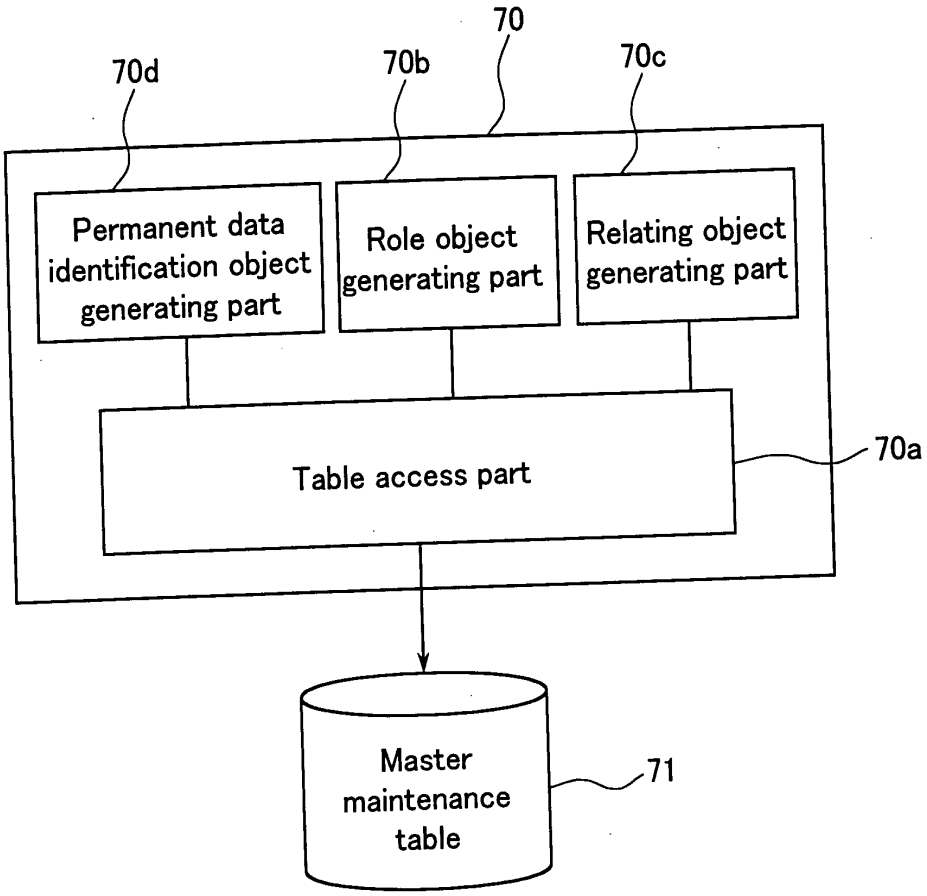

FIG. 17

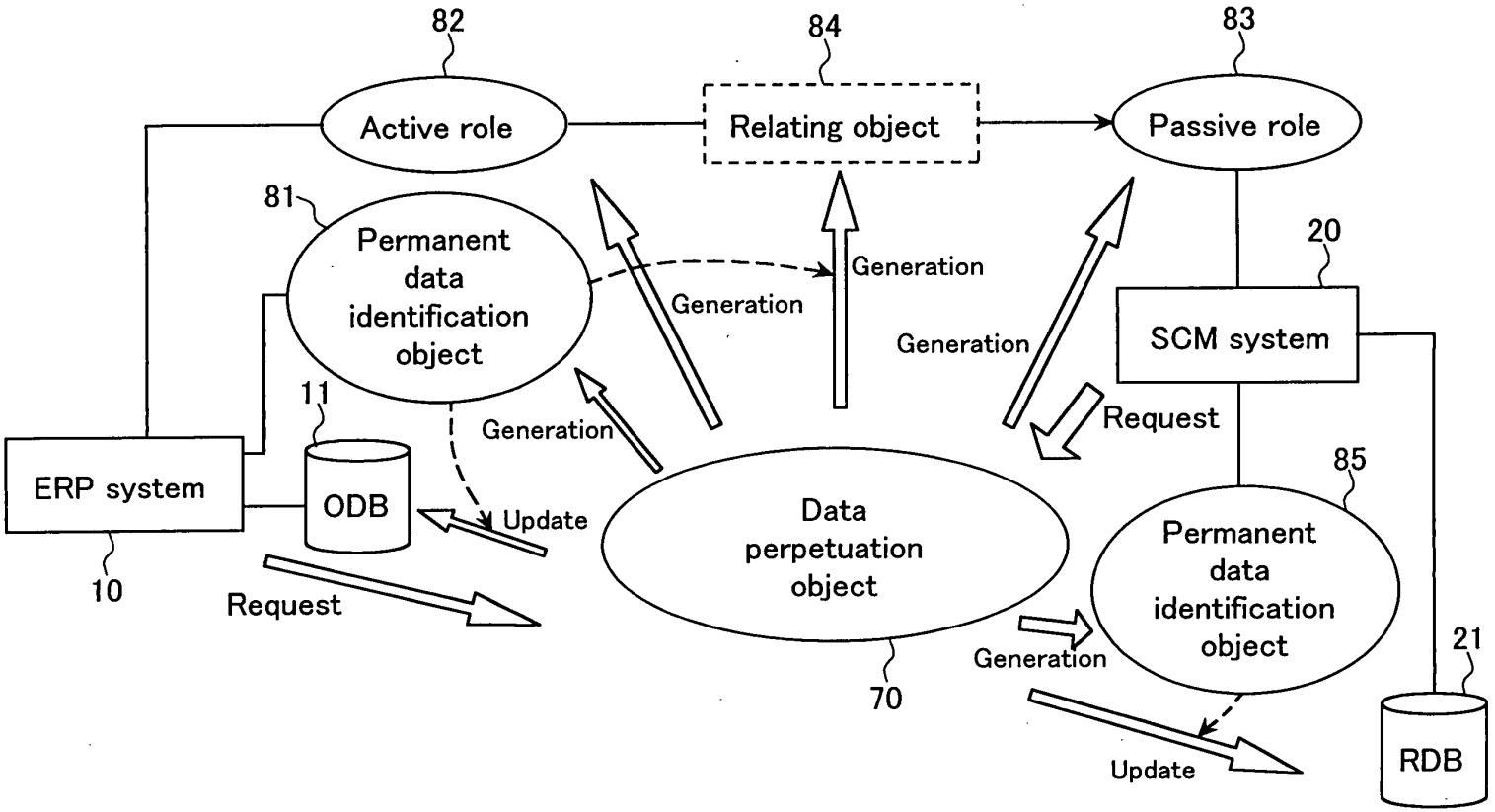
82
84
83
Active role
Relating object
Passive role
81
Permanent data identification object
Generation
Generation
Generation
20
SCM system
11
Generation
Request
ERP system
ODB
Update
Data perpetuation object
85
Permanent data identification object
10
Request
Generation
21
70
Update
RDB

FIG. 18

JP2003-050707

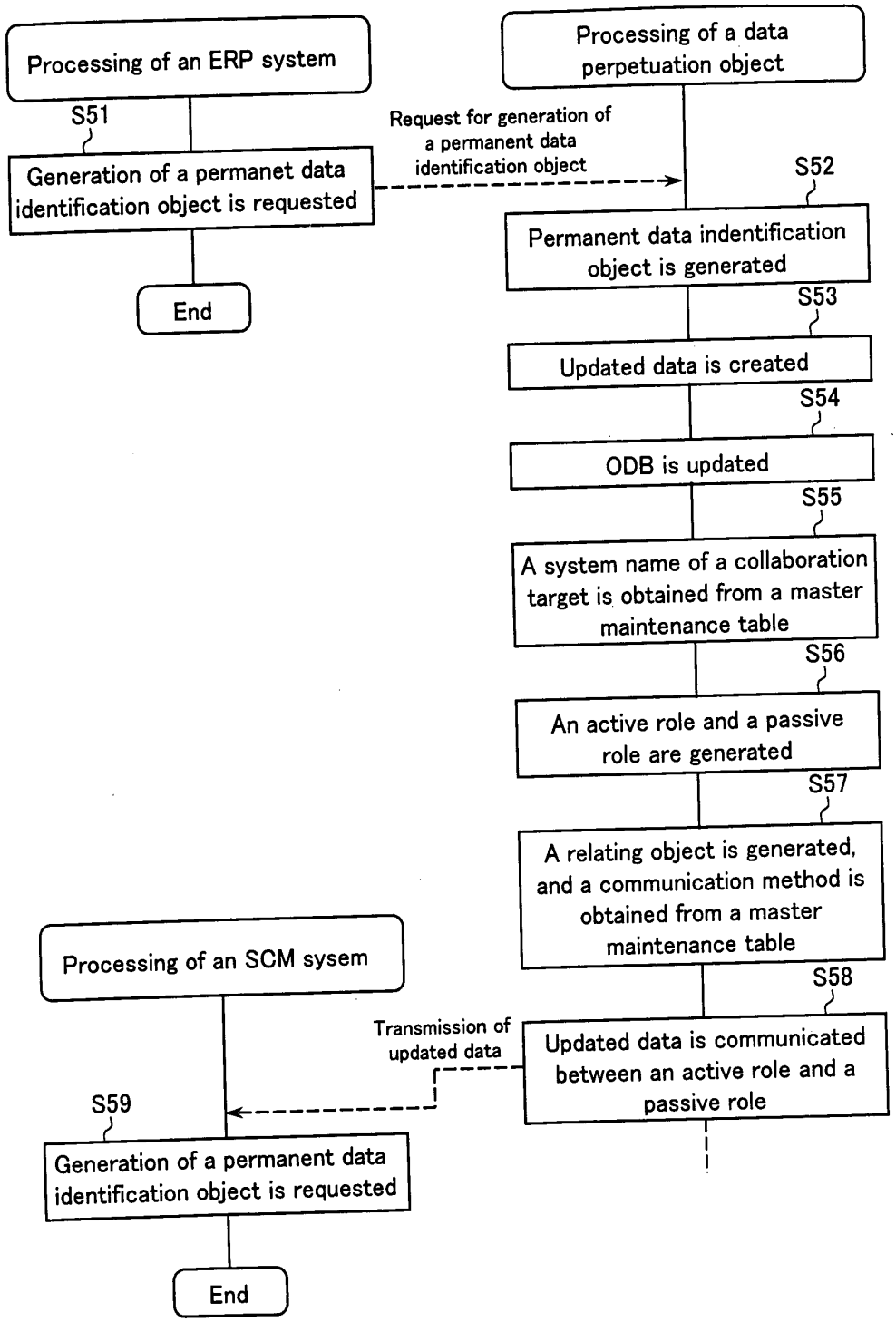

FIG. 19